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## PATENT ABSTRACTS OF JAPAN

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(21) Application number: **58182487**(71) Applicant: **SUMITOMO CHEM CO LTD**(22) Date of filing: **29.09.83**(72) Inventor: **MATSUDA TERUO**

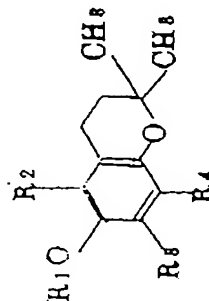
(54) **CHROMAN DERIVATIVE STABILIZER FOR**  
**ORGANIC MATERIAL**

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(57) Abstract:

PURPOSE: To provide a stabilizer for org. materials, which is harmless to the human body and domestic animals and inexpensive, comprising a specified chroman derivative.

CONSTITUTION: A stabilizer comprises a chroman derivative of the formula (wherein  $R_1$  is H, methyl, ethyl, acetyl;  $R_2, R_3, R_4$  are each H, methyl). Org. materials which can be stabilized by the stabilizer are those contg. an unsaturated bond which is liable to undergo oxidative decomposition and those which undergo radical deterioration due to heat or light as in the oxidative decomposition of the unsaturated bond. Examples of such org. materials are polymers such as vinyl resin polyvinyl ester, polyolefin and polyamide; animal and vegetable oil such as lard and coconut oil; and hydrocarbons such as kerosene and gas oil. Examples of the compds. of the formula are 2,2,5,7,8-pentamethyl-6-chromanol and 2,2,8-trimethyl-6-chromanol. 0.001W5wt% said chroman derivative is blended with the org. material.



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STN CA Caesar accession number : 1056

AN - 1985:524489 CAPLUS

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TI - Coumarone derivative-based stabilizers for organic compounds

PA - Sumitomo Chemical Co., Ltd., Japan

SO - Jpn. Kokai Tokkyo Koho, 3 pp.

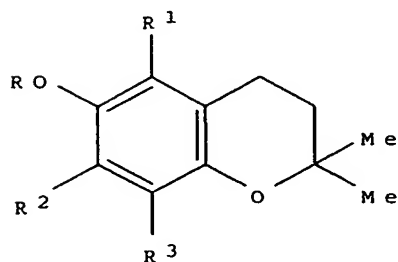
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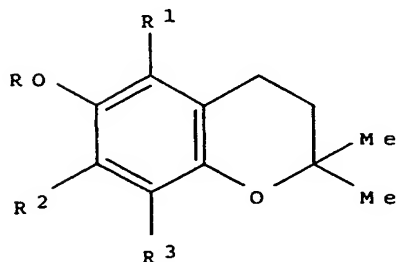
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PN	JP60072980	A2	19850425	JP 1983-182487	19830929
PRAI-	JP 1983-182487		19830929		
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AB A coumarone deriv. (I) (R = H, Me, Et, acetyl; R1, R2, R3 = H, Me) is used as a nonpoisonous heat \*\*\*stabilizer\*\*\* for an org. compd. Thus, 25 mL \*\*\*acrylic\*\*\* acid [79-10-7] contg. 0.1 g I(R = H; R1 = R2 = R3 = Me) (II) [ \*\*\*950-99-2\*\*\* ] maintained colorlessness without polymn. after 360 min of heating at 80.degree..

GI



I

IT Heat stabilizers

(coumarone derivs, for org. compds., nonpoisonous)

IT Oils

RL: USES (Uses)

(vegetable, heat stabilizers for, coumarone derivs. as,  
nonpoisonous)

IT 79-10-7, uses and miscellaneous

RL: USES (Uses)

(heat stabilizers for, coumarone derivs. as, nonpoisonous)

IT 950-99-2

RL: MOA (Modifier or additive use); USES (Uses)

(heat stabilizers, for org. compds., nonpoisonous)